

Abstract

Distributed Server Programming using .Net and ArcObjects

Track: Application Development

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This paper explores the use of both .Net and ArcObjects in the Programmable Mapping Cluster (PMC), a software framework to ease ArcObjects development over large groups of servers. The PMC makes extensive use of the .Net Remoting architecture to connect all servers in a cluster into a single, programmable entity. It exposes itself as an interception layer based on .Net Custom Attributes and several specialized classes. In this regard, developers can harness the power of many servers while still writing code that closely resembles the desktop equivalent. Topics will include security, load balancing, call execution/interception, state management, and software versioning.

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